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NPIC/TSSG/DED-1929-69

MEMORANDUM FOR: Executive Director, NPIC

SUBJECT: Status Report of Current AL-14 Project Tasks with
[redacted]

1. The purpose of this memorandum is to report on how the residue funds in the AL-14 contract will be utilized. Since 1964, NPIC has conducted a varied program of research and development at [redacted] under this contract, administered through DD/S&T/OSA. Total contract funding to date has been [redacted] Specific research authorized to the contractor totaled [redacted] The funds available for additional tasks was, therefore, [redacted] By mutual agreement between NPIC and OSA, a decision was made to allocate this past fiscal year funding by 30 June 1969 and extend the work at [redacted] for one more year.

2. Consequently, several research PAR's investigated and pending in recent months were proposed as CPFF tasks and reviewed for technical adequacy during June 1969. In accordance with past procedures, our technical approval was communicated to the OSA Contracting Officer for his contractual commitment. As in the past, TSSG/DED will monitor these PAR's and evaluate the results.

3. The new PAR's are described below:

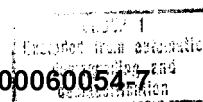
PAR 201: Travel and Liaison - extended for 12 months (No additional funding required.)

PAR 251: Ring-Smear Image Enhancement Techniques - 12 months
Cost [redacted]

[redacted] will design, fabricate, and mount a ring-smear device on the Government's breadboard Beacon Print Enlarger which is residual at [redacted] from previous PAR's. Following checkout and testing of the modified enlarger, image enhancement will be practiced on selected mission originals. If results are favorable, additional [redacted] and NPIC exploitation personnel will be trained in the use of this enhancement equipment. Concurrently, [redacted] will study the operating

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SUBJECT: Status Report of Current AL-14 Project Tasks with

[REDACTED]

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parameters of Ring-Smear Image Enhancement with the goal of improving the method.

PAR 252: Improvement of the Precision Enlarger Fluid Injection System - 9 months Cost [REDACTED]

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[REDACTED] will develop a refractive-index fluid-injection system for use with the [REDACTED] Precision Enlargers and the 10-20-40X Enlargers. This system will prove more reliable, more economical to manufacture, and more resistant to the chemical properties of the chlorinated hydrocarbon fluids now used in these systems. Additional design goals include operation simplicity and safety, adjustable delivery volume, and readily visible fluid supply level. In order to determine reliability the breadboard system will be thoroughly tested over extended periods of time and through complete operating cycles.

PAR 253: Stereogram Printer Optical Feasibility Study - 12 months Cost [REDACTED]

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The ultimate purpose of a Stereogram Printer would be to provide high quality stereo imagery readily available to P.I.'s for use with simple, low-cost stereoscopes. Complex anamorphic, differential zoom, and adjustable rhomboidal optics are frequently necessary to properly display, for stereo fusion, imagery from current camera systems with varying image geometries. Experimentation with electronic image correlation systems has proven that automatic registration of stereo images through optical elements is possible with adequate viewing resolution and promises to release the P.I. from burdensome mechanical adjustments and allow him to concentrate on the heart of his analytical task. Automatic equipment for these purposes will be expensive and perhaps prohibitive in large numbers. Under this PAR, [REDACTED] will study the feasibility of developing an optical system for adequate reproduction of stereo pairs from standard 2nd generation DP's. From their designs, [REDACTED] will fabricate and assemble breadboard optics for one optical path and test its reproduction capabilities.

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PAR 254: Production Improvement Services - 12 months Cost [REDACTED]

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Anticipated increases in acquisition of color imagery and substantive improvements in black and white imagery make necessary the upgrading in processing and over-all production of film imagery

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SUBJECT: Status Report of Current AL-14 Project Tasks with

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at NPIC. Consequently, under this PAR, [REDACTED] will perform studies and experiments for improvement of techniques that would permit direct coupling into an integrated National distribution plan and increase production quality and efficiency. From this, we will determine the changes in equipment, material, personnel, and/or procedures necessary. Finally, [REDACTED] will provide technical and/or consultative services, personnel training support, and samples of material to achieve higher quality and result in more efficient production procedures for both color and enhanced black and white original and duplicate materials.

PAR 249A: Photographic Enlarger Maintenance - 12 months
Cost [REDACTED]

The schedules for monthly, bi-monthly, and semiannual preventive maintenance currently in effect on one Beacon Precision Enlarger (BPE) and four 10-20-40X Enlargers at NPIC will be continued for 12 months beginning 1 July 1969. An additional BPE will be added to the preventive maintenance schedule when installed at NPIC in the Fall of 1969. In addition, if NPIC so requests, [REDACTED] personnel will investigate problem areas not indicated on the Preventive Maintenance Check Lists and make minor modifications/adjustments.

4. Cost Summary:

PAR 201 - Travel & Liaison (No additional funding required)

PAR 251 - Ring-Smear Enhancement Techniques

PAR 252 - Improvement of the Precision Enlarger Fluid Injection System

PAR 253 - Stereogram Printer Optical (Feasibility Study)

PAR 254 - Production Improvement Services

PAR 249A - Photographic Enlarger Maintenance

Fixed Fee

Total

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SUBJECT:

Status Report of Current AL-14 Project Tasks with

[REDACTED]

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5. Continuing effort and results of all these PAR's will be variously documented in monthly, quarterly, interim (where applicable), and final reports during FY 1970. Copies of these reports and comprehensive briefings by NPIC and contractor personnel will be provided your office, as requested.

[REDACTED]
Chief, Technical Services & Support Group
NPIC

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Distribution:

Original - Addressee

1 - NPIC/TSSG

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[REDACTED]

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